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(54) COMPOSITION FOR PRODUCING PRECOATED STEEL SHEET

(57)Abstract:

PURPOSE: To obtain a composition for a precoated steel sheet having a high curing rate and giving a cured film excellent in hardness, impact resistance, adhesion to steel sheet and bendability by mixing a compound having oxetane rings with a cationic photopolymerization initiator.

CONSTITUTION: This composition is obtained by mixing a compound (A) having 1-4 oxetane rings with an epoxy compound (B), a compound (C) having a vinyl ether group or a compound (D) having a (meth)acryloyl group (D) as an optional component and a radical photopolymerization initiator in a weight ratio (B to D)/(A to D) of (5-95)/100, and adding 0.1-20wt.%, based on the total of components A to C, a cationic photopolymerization initiator. The radical photopolymerization initiator is used in an amount of 0.01-20wt.% based on component D. This composition is applied to the surface of a steel sheet and cured by irradiation with an actinic radiation to obtain a precoated steel sheet.

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